

omni-data®

electrostatic

INSTRUMENTATION PRINTER



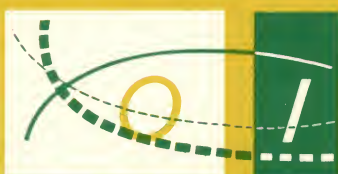
OMNI-DATA Instrumentation Printer, Model ITR-7 (exclusive of character generators), and a section of 1-inch paper tape as produced thereon.

This new member of the OMNI-DATA family of paper-tape printers provides an on-line real-time window into telemetry, data-reduction and data-acquisition systems. It presents an instant permanent record of data in highly readable numeric form for visual analysis of trends, sporadic influences, and normal variations in information.

An extension of the OMNI-DATA alphanumeric serial printer, ATR-7, the Instrumentation Printer utilizes the electrostatic recording process to deposit and fix black numerals on paper tape. Instead of printing character-by-character along the tape, however, the ITR-7 prints up to five columns of numeric characters (0 through 9) in a line *across* the tape at a spacing of five lines per longitudinal inch of tape.

Standard tape speed in synchronous operation is 60 inches per second, thereby producing 300 lines per second. In asynchronous (start-and-stop) operation, the Instrumentation Printer offers speeds up to 6 inches (30 lines) per second.

OMNI-DATA electrostatic paper tape is used. Tape width of 1 inch, giving up to a 5-character printed line, is standard. Optional paper widths of 3, 8, and 12 inches, giving correspondingly longer printed lines, are also available.



OMNITRONICS, INC.

SUBSIDIARY OF BORG-WARNER CORPORATION

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FEATURES

- Non-impact printing eliminates mechanical devices
- High reliability over long time at high speeds
- Visible characters on opaque paper tape

- Minimum maintenance
- Simple, complete controls

- Wide input-signal range assures reliability of recording and reading
- Compatible with OMNI-DATA RS-series reelers

- Compact and clean
- Lightweight
- Shielded ball bearings throughout

SPECIFICATION

TAPE AND MECHANICAL

TAPE SIZES: Standard—1", giving up to 5-character printed line; see optional sizes under OPTIONS.

TAPE SPEEDS: Any discrete synchronous speed up to 60 inches (300 lines) per second, and asynchronously to 6 inches (30 lines) per second.

START TIME: 3 milliseconds maximum.

STOP TIME: 1 millisecond maximum.

PAPER HANDLING: Compatible with OMNI-DATA RS-series reelers.

FIXING: Permanent fixing of data.

CHARACTER SPACING: Up to 5 characters per line across 1" tape;
5 lines per inch longitudinally.

CONTROLS AND INDICATORS

Two illuminated control switches and an alternate-action indicator are provided:

1. Power on-off switch—illuminates when power is on.
2. Start-Stop switch—illuminates for either condition.
3. Load Tape/Ready switch—tape-drive mechanism is disengaged to facilitate tape loading. Illuminated indicator shows when recorder is ready for operation.

ELECTRICAL

INPUT SIGNALS:

1. Code: 4 bits per character, 20 parallel bits for 5-character numeric line. 1 bit for clock.
2. Level: -10v from 10k-ohm source for One.
0v from any source for Zero.
3. Pulse duration: 20 μ sec. minimum.

ELECTRICAL CONTROLS:

1. -6 to -12-volt signal on each of two lines, one for start and one for stop.
2. Closure of contacts provided also initiates alternate start and stop.

GENERAL

POWER: 115v $\pm$ 10%, 60 cps, single-phase, approx. 700 watts.

DIMENSIONS: 1. Printer: 19" W, 12 $\frac{1}{4}$ " H, 17" deep; 3" maximum projection from front panel.

2. Character Generators: 19" W, 5 $\frac{1}{4}$ " H, 17" deep each.

WEIGHT: Printer, 70 lb. Character Generators, 25 lb. each.

OPTIONS: Alphabetic characters and punctuation marks, up to 64-character total. Tape widths of 3, 8, or 12 inches with corresponding increase in number of characters printed on one line.

SPECIFICATION, THROUGH PRODUCT
IMPROVEMENT, SUBJECT TO CHANGE
WITHOUT NOTICE.

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